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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		AT	ATTORNEY DOCKET NO.	
09/441,493	11/17/99	LENHARD		J PI	J3571US	
 023347	•	HM12/0925		EXAMINER		
	/. CORPORATE	INTELLECTUAL PRO		ZEMAN E		
GLAXOSMITHKL				ART UNIT	PAPER NUMBER	
FIVE MOORE I PO BOX 13398 DURHAM NC 23	3			1645 DATE MAILED:	12	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application	on No.	Applicant(s)					
Office Action Summary				LENHARD ET AL.					
		Examiner							
		Robert A		1645					
	The MAILING DATE of this communication a								
Period fo				•					
THE - Externation - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reduce of the provision of th	.136(a). In no eventh of the statude of the statu	ent, however, may a reply be t utory minimum of thirty (30) da Il expire SIX (6) MONTHS froi ication to become ABANDON	timely filed ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).					
1)🛛	Responsive to communication(s) filed on 22	March 2001	. •						
2a) <u></u>	☐ This action is FINAL . 2b) ☐ This action is non-final.								
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)	4) Claim(s) 1-12 is/are pending in the application.								
	4a) Of the above claim(s) <u>1-8</u> is/are withdrawn from consideration.								
5)[Claim(s) is/are allowed.								
6)□	Claim(s) <u>9-12</u> is/are rejected.								
•	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restriction and	or election re	equirement.						
	ion Papers								
	The specification is objected to by the Examir								
10)	The drawing(s) filed on is/are: a)☐ acc								
	Applicant may not request that any objection to								
11)	The proposed drawing correction filed on			roved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.									
<i>,</i> —		-xamine.							
_	under 35 U.S.C. §§ 119 and 120 Acknowledgment is made of a claim for forei	an priority un	der 35 II S.C. & 119	(a)-(d) or (f)					
·	All b) Some * c) None of:	gii priority un	del 55 0.0.0. § 110	(d) (d) 01 (1).					
a)									
	 1. Certified copies of the priority documents have been received in Application No 								
	3. Copies of the certified copies of the pri								
* (application from the International E See the attached detailed Office action for a list	Bureau (PCT	Rule 17.2(a)).						
14) 🔲 /	Acknowledgment is made of a claim for domes	stic priority ur	nder 35 U.S.C. § 119	(e) (to a provisional application).					
	a) The translation of the foreign language p Acknowledgment is made of a claim for dome								
Attachmer	nt(s)								
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	<u>4 + 9</u> .		ary (PTO-413) Paper No(s) al Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group 3 in Paper No. 7 is acknowledged. The traversal is on the ground(s) that the Restriction Requirement (Paper No. 6) does not explain how the inventions of Groups I, II and III are independent. This is not found persuasive because, as detailed in Paper No. 6, "the different inventions are drawn to differing methods having different steps and leading to differing results " (see second paragraph).

The requirement is still deemed proper and is therefore made FINAL.

Claims 1-12 are pending. Claims 1-8 have been withdrawn from consideration as being drawn to a non-elected invention. Claims 9-12 are currently under examination.

Information Disclosure Statement

The information disclosure statements filed on 9-15-2000 (Paper No. 4) and 6-7-2001 (Paper No. 9) are acknowledged and have been considered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 9-12 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for methods of determining the temperature of internal tissues or organs comprising replacing a portion of skin in a region of the body in proximity to the tissue or organ with a infrared-invisible polymer and measuring said temperature using infrared thermography in mice, does not reasonably provide enablement for methods of determining the temperature of internal tissues or organs comprising replacing a portion of skin in a region of the body in proximity to the tissue or organ with a infrared-invisible polymer and measuring said temperature using infrared thermography in any subject other than mice. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. The specification provides examples of mice having portions of their skin removed (peeled back) and replaced with an infrared-invisible polymer (see figures 26 and 28-30). However, the specification is silent on how to use the claimed method on any subject that is not a mouse. The specification provides no guidance as to the area of skin that must be replaced relative to the size of the subject, whether said area is dependent on the physical characteristics (i.e. size, percent body fat, presence of fur etc.) of the subject or the effect of bone, cartilage, and muscle mass on infrared thermography. Additionally, the specification is silent on the effect adipose tissue; cartilage, muscle and bone have on the required "proximity" of the replacement site to the tissue/organ of interest? Consequently, one of skill in the art would not be able to use the invention commensurate in scope with the claims.

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Claims 9-12 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 is rendered vague and indefinite by the use of the term "portion". What area of skin must be replaced? Is it a percentage of the total area available or a set size? As written it is impossible to determine the metes and bounds of the claimed invention.

Claim 9 is rendered vague and indefinite by the use of the term "proximity". How close to the tissue/organ must the replacement area be? What is the maximum distance? As written, it is impossible to determine the metes and bounds of the claimed invention.

Claim 10 is rendered vague and indefinite by the use of the phrase "before and after the administration of a test agent". How long before? How long after?

Claim 10 is rendered vague and indefinite by the use of the phrase "wherein a difference in temperature resulting from the administration of a test agent indicates that the test agent had a thermodynamic effect". Is Applicant asserting that act of administering said agent or the biological effect of the test agent causes the change in temperature? As written, it is impossible to determine the metes and bounds of the claimed invention.

Claim 11 is rendered vague and indefinite by the phrase "one or more dosages of the test agent". Are said dosages administered simultaneously or over time? If administered over time, at what intervals?

Claim 12 is rendered vague and indefinite by the use of the phrase "measured at one or more time points after administration of test agent". How long after? At what interval? As written, it is impossible to determine the metes and bounds of the claimed invention.

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Conclusion

No claim is allowed.

Claims 9-12 are free of the art of record since no other method of infrared thermography includes the step of replacing a portion of skin with an infrared-invisible polymer.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert A Zeman whose telephone number is (703) 308-7911.

The examiner can normally be reached on M-Th 7:30 am - 5:00 pm and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, Donna Wortman can be

reached on (703) 308-1032. The fax phone numbers for the organization where this application

or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-4242

for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0196.